

SEQUENCE LISTING

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 Fry, Kirk
 Woodward, Robert
 Ly, Ngoc

<120> METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
 AUTO IMMUNE AND CHRONIC INFLAMMATORY DISEASES

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<151> 2002-04-24

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<212> DNA
<213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 32
<211> 770
<212> DNA
<213> Homo sapiens

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cagattgttc ctaaaccaga agaggagggt gcccagaaga aaaagatatc ccagaagaaa 660
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<210> 33
<211> 539
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<220>
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<222> (519)..(519)
<223> n is a, c, g, t or u

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<220>
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 <223> n is a, c, g, t or u

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<210> 34
 <211> 2305
 <212> DNA
 <213> Homo sapiens

<400> 34
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<210> 35
<211> 1723
<212> DNA
<213> Homo sapiens

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<400> 35
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cccggccacc gctgcctcag cctctgcctc ccagcctctt tctgagggaa aggacaagat 180

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<210> 36

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 36

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<210> 37
<211> 1653
<212> DNA
<213> Homo sapiens

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ggaggatgtc ttcactgggt ggccccacgc aaagcttctt catgagggaa tctaagactt 300
tgggggctgt ccagattatg aatgggctct tccacattgc cctgggggggt cttctgatga 360

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<210> 38

<211> 1937

<212> DNA

<213> Homo sapiens

<400> 38

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<210> 39
<211> 2647
<212> DNA

<213> Homo sapiens

<400> 39

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<212> DNA

<213> Homo sapiens

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<211> 1901

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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1510

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<211> 2828

<212> DNA

<213> Homo sapiens

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<211> 574

<212> DNA

<213> Homo sapiens

<400> 49

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 <213> Homo sapiens

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 <211> 2106
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 54
<211> 1245
<212> DNA
<213> Homo sapiens

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<210> 55
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<212> DNA
<213> Homo sapiens

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<210> 56
<211> 3148

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<212> DNA

<213> Homo sapiens

<400> 56

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 <211> 1404
 <212> DNA
 <213> Homo sapiens

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<211> 1972

<212> DNA

<213> Homo sapiens

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<211> 2972

<212> DNA

<213> Homo sapiens

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<210> 71
<211> 282
<212> DNA
<213> Homo sapiens

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<400> 71
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ttaagctgga atggtttttt cccaaacca aaaattgggt ttaccaaaaa ggggaatagg 180
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<210> 72
 <211> 2870
 <212> DNA
 <213> Homo sapiens

<400> 72
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 ggccaagggc accttcgcca ccttcgagcg ggcgaggtcc gggcggggac ggggcgggga 180
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<210> 73
<211> 1329
<212> DNA
<213> Homo sapiens

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aaaaaaaaa 1329

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<210> 74
<211> 1983
<212> DNA
<213> Homo sapiens

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<400> 74
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aaa 1983

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<210> 75
<211> 2736
<212> DNA
<213> Homo sapiens

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cgggccccag cggcggggcc ggtggcggag gtggtggtgg cggcggaggc ggcggcaccg 180
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gagttattcc tgatgaagct aaagctttgt ctctgttggc accagctaatt gcagtggcag	480
gtcttctgcc tgggtgggtgga ctctgccta ctctaacc cttaccag attggcgctg	540
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<210> 76
 <211> 1839
 <212> DNA
 <213> Homo sapiens

<400> 76
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 <211> 1348
 <212> DNA
 <213> Homo sapiens

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<210> 78
 <211> 2156
 <212> DNA
 <213> Homo sapiens

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<400> 78
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA

<213> Homo sapiens

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<211> 521

<212> DNA
<213> Homo sapiens

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<211> 1766
<212> DNA
<213> Homo sapiens

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 <211> 1732
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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2543

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<211> 401
<212> DNA
<213> Homo sapiens

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<211> 1466
<212> DNA
<213> Homo sapiens

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<220>
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aacaaaacct agtaatacat acaaaagctt tcatgggttc tagaaccttc ttaactgctg      420
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 <211> 3875
 <212> DNA
 <213> Homo sapiens

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cctagaaaaa cgggtagtaa actgtggata gtcaggaaaa caccagcaa gggacacagc      180

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<210> 138
 <211> 1865
 <212> DNA
 <213> Homo sapiens

<400> 138
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 aacta 1865

<210> 139
 <211> 1198
 <212> DNA
 <213> Homo sapiens

<400> 139
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 ttgcaacatt agtttttttc cagcatcagc aattgctact caattgtcaa acacagcttg 960
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aaactggtta agtggcatgt aatagtaagt gctcaattaa cattgggtga ataatgaga      1080
gaatgaatag attcatttat tagcatttgt aaaagagatg ttcaatttca ataaaataaa      1140
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<210> 140
<211> 453
<212> DNA
<213> Homo sapiens

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<220>
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<222> (182)..(182)
<223> n is a, c, g, t or u

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<400> 140
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atgagtaaac tgaggcacag taagactaag ttaactgccc aaactcttcc acctgggttag      180
tngggaaaat aacattttcca accctgatct ttctgggtcc tgaaccagga tagctggact      240
gtacttcccc atttttgaaa aagctgctaa aaacttgggt acaaacttta agtgacacgt      300
ttctccattt atgtgggtggt tatagcaacg gtacaactct ctatttataa attaaacctt      360
gagaaacacc catctccact tcctagacaa accaatgaac attagtctta tttttctccc      420
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<210> 141
<211> 222
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g, t or u

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<400> 141
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gttcaccatc acaactgcat taccaaaagg ggatttttnc aaacgcggag ttgacaaaaa      180
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<210> 142
<211> 1851
<212> DNA

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<213> Homo sapiens

<400> 142
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 ccatgtccac caggtccgtg tctctgtcct cctaccgcag gatgttcggc ggcccgggca 180
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tgctagaata ctttttaaaa ggtattttga ataccattaa aactgctttt ttttttccag 1800
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<210> 143
 <211> 2864
 <212> DNA
 <213> Homo sapiens

<400> 143
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 aaatgaccca gaatacatta gggagaggaa catgtctcct gatctacgac aagacttcaa 180
 catgatggag cagaggaaac gagttactca gatcctgcaa agtcctgcct ttcgggaaga 240
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 tctcagtctt ggcattgtca cacctatcaa tgaccttcct ggtgcagata catcctcata 420
 tgtgaaggga gaaaaactta ctgctgtaa acttgccagc ctgtacagac ttgtagactt 480
 gtttggatgg gcacacctgg caaatccta tatctcagta agaataagta aggagcaaga 540
 ccacattata ataattccca gaggcctatc tttttctgaa gctacagcct ccaatttggg 600
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<210> 144
<211> 360
<212> DNA
<213> Homo sapiens

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<400> 144
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gaaagggcag tttcttcaat gggggggtag cctcaataa ttatatataa aatggctgcc 180
aaaccagtaa gactgctttt atacatccat ctttttcagg attgggggaa accggggcat 240

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attttcccca aataactttg cctccttggg cacaaggccc aattcgctca catttactta 300
aatgacagtc ccttgggaat aacacccaaa gttgatccag gggggataag gatttttctt 360

<210> 145
<211> 876
<212> DNA
<213> Homo sapiens

<400> 145
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agtgcacctg aaacgccttc ttatcgtggg ggtgggtggg gtcctcatcg tcgtggtgat 180
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<210> 146
<211> 1875
<212> DNA
<213> Homo sapiens

<400> 146
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gctgctcagt tggatgagct catggctcac ctgactgaga tgcaggccaa ggttgacagt 420

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aaaaaaaaaa aaaaaa

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<210> 147
 <211> 1161
 <212> DNA
 <213> Homo sapiens

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<400> 147
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cacctgcgca tcgcttacta tgcattccaaa ggctaccgtg gttactccta tgatgacatt 180
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<210> 148
 <211> 2354
 <212> DNA
 <213> Homo sapiens

<400> 148
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<212> DNA
<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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 <213> Homo sapiens

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 <211> 1231
 <212> DNA
 <213> Homo sapiens

<400> 183

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 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

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<211> 787
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<220>
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<223> n is a, c, g, t or u

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<210> 187
 <211> 3256
 <212> DNA
 <213> Homo sapiens

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 <211> 4080
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<400> 198

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 <212> DNA
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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 <213> Homo sapiens

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<210> 233
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<212> DNA
<213> Homo sapiens

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<210> 234

<211> 990

<212> DNA

<213> Homo sapiens

<400> 234

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tgagcacttc ctctcttctc agcaccacca ggctcttgta ttatccctgt ccctgccctg 180
gaatcgactc ctctccaga gagccctggg ttctttgtta gaggatggta tatagaatcc 240
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<210> 235
<211> 2088
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<220>
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<222> (490)..(501)
<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<220>
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 <222> (1984)..(1992)
 <223> n is a, c, g, t or u

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<210> 236
<211> 111
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<210> 237
<211> 841
<212> DNA
<213> Homo sapiens

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<400> 237
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<210> 238
 <211> 1326
 <212> DNA
 <213> Homo sapiens

<400> 238
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 <211> 2439
 <212> DNA
 <213> Homo sapiens

<400> 239
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<210> 240
<211> 675
<212> DNA
<213> Homo sapiens

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<210> 241

<211> 4670

<212> DNA

<213> Homo sapiens

<400> 241

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<210> 242
 <211> 2082
 <212> DNA
 <213> Homo sapiens

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<210> 243
<211> 688
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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agagagagct gtagtgtcac ctgacattcc ccaaaccttg tgaagcacgt tggcctaagt 180
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<210> 244
<211> 2309
<212> DNA
<213> Homo sapiens

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<400> 244
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<210> 245
<211> 171
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (72)..(72)
<223> n is a, c, g, t or u

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<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, t or u

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tttgtaaaag gngggaaatc agctgcctca ggaggttctt aacatatagg aatgtaatta 120
tcagattcaa agctgancag tagtgcgttg ccctgtaacc taagtcttgg c 171

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<210> 246
<211> 302
<212> DNA
<213> Homo sapiens

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ca 302

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<210> 247
<211> 1991

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<212> DNA

<213> Homo sapiens

<400> 247

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<211> 920
<212> DNA
<213> Homo sapiens

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<211> 429
<212> DNA
<213> Homo sapiens

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 tacaaaagttt tctgttgtca aatagcaaga gatctctgtt ttctacttgg aatgggcctg 240
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 <211> 2058
 <212> DNA
 <213> Homo sapiens

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<211> 690
<212> DNA
<213> Homo sapiens

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agagtggaga gatcaaagca attggagaac tggatttgc gtttatgtct ctgagaaatg 600

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<210> 258
 <211> 2932
 <212> DNA
 <213> Homo sapiens

<400> 258
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 <211> 1177
 <212> DNA
 <213> Homo sapiens

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<210> 260
 <211> 436
 <212> DNA
 <213> Homo sapiens

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<400> 260
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<210> 261
 <211> 878
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (579)..(579)

<223> n is a, c, g, t or u

<400> 261

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<210> 262

<211> 2451

<212> DNA

<213> Homo sapiens

<400> 262

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<213> Homo sapiens

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<211> 2140

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 270

<211> 2977

<212> DNA

<213> Homo sapiens

<400> 270

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<210> 271
<211> 1749
<212> DNA
<213> Homo sapiens

<400> 271
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aaaaaaaaa 1749

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<210> 272
<211> 2885
<212> DNA
<213> Homo sapiens

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<400> 272
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 ttccggagtc cgcttcccgg ccccagatt ctggcatccc agccctcagt gtccaagacc 180
 caggcagccc ggggtcccgc ctcccggatc caggcgctcc ggatctgcgc caccagaacc 240
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 cgtcccaccc agagaaactc tcgtattccc agctcctagg gccaaagAAC ccgggcgctc 360
 cgaactccca gctttcggac atctggcaca cggggcagag cagagaagcc tcagcgccca 420
 gcctggggaa tttaaacact ccagcttcca agagccaagg aacttcagt ctgtgaactc 480
 acaactctaa ggagccctcc aaagtccag tctccagggtg ctgttactca actcagtcct 540
 aggaacgtcg ggtcctggga aggagcccaa gcgctcccag ccagcttcca ggcgctaaga 600
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aaaaa 2885

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<210> 273
<211> 438
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (417)..(418)
<223> n is a, c, g, t or u

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<400> 273
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aagagggggt ggggaagatt acattttttt tccttttgaa actgaatgcc ataatctcga 180
tcaaacccgat ccagaatacc gaagatcggc acaggacaga aaagcgagtc gcaggaggaa 240
gggagatgca gccgcacagg ggatgattac cctcctagga ccgcgggtggc taagtcattg 300

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caggaacggg gctgtgttct ctgctgggac aaaacaggag ctcatctctt tggggtcaca 360
 gttctatttt gtttgtgagt ttgtattatt attattatta ttattattat attttanntc 420
 tttggtctgt gagcaact 438

<210> 274
 <211> 484
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (457)..(457)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (483)..(483)
 <223> n is a, c, g, t or u

<400> 274
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 gaacggagca gtgatgtggt tttcaaggca gcagtggcag aggtcccatg taatggtgca 180
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 agccactatt taattgtaac cactgtcaac ctttttcctt atttacttca gatccttttg 420
 tgtttaaata aaggaaaagc tgcacatcca aaaaagnaga gaaaaaaaga tggcggccga 480
 agng 484

<210> 275
 <211> 931
 <212> DNA
 <213> Homo sapiens

<400> 275
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 ccaccgcaag gtcttgagag acaacattca gggcatcacc aagcctgcca ttcggcgtct 120
 agctcggcgt ggcggcgcta agcggatctc tggcctcatt tacgaggaga cccgcggtgt 180
 gctgaagggtg ttcttgagga atgtgattcg ggacgcagtc acctacaccg agcacgccaa 240
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 gtacggcttc ggaggctagg ccgcccgtcc agctttgcac gtttcgatcc caaaggccct 360

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ttttagggcc gaccacttgc tcatctgagg agttggacac ttgactgcgt aaagtgcaac 420
agtaacgatg ttggaaggct tatgatttta ctgtgtatgt atttgggaga agaaattctg 480
tcagctccca aaggataaac cagcagttgc tttattggtc ttcagatgtg gctgcaaaca 540
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cggactctga ataaagagca gaatgattgg c 931

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<210> 276
<211> 405
<212> DNA
<213> Homo sapiens

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<400> 276
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actgcaacct ccacctcccg ggttcaagcg attctcctgc ctccagcctcc tgagtagctg 120
ggactacagg cgcccgccac cagcctggc taatttttgt attttttagta gagacggggg 180
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tcccaaagtg ctgggattac aggctgagc cactgcgcct ggcagaccac ctatattact 300
tttaaccaca aatgaaatag atgacttctt agaaaaacat aaaagcagag ctgtctcaaa 360
aaccaacaga atatctgcat agcctaataaa ccataaagaa agcag 405

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<210> 277
<211> 368
<212> DNA
<213> Homo sapiens

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<400> 277
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cctctgtgtc tggcgtgtct cattgagcct ggagtgtctc attgagcctg gcgtcctgaa 180
gggtgcgtcca cgccgtgcct gagtcagagc ttcttctttt tcatggctgg gttgtgttcc 240
agtgcattga gggccacact acgcctctc ctctgctgac ggccatctgg gttgtagcca 300
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ttccactc

368

<210> 278
 <211> 239
 <212> DNA
 <213> Homo sapiens

<400> 278
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 tgaacaccct gagagtcgag gacacggcta tatattattg cgcgagagac cgagggaaat 180
 tatattgtag tgggtgtatt tgctttccgc ctgttggtta cttcgacccc tggggccaa 239

<210> 279
 <211> 335
 <212> DNA
 <213> Homo sapiens

<400> 279
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 catatttgat atatcaagtg tcttcacaac tgtgcttgca tattctttcc caaaatattg 180
 aaagtccata tatttccttg tacattttta aagttgatat ctaaactctt catgtagtgt 240
 caaagcatgt aatttccttg gggagggggg ctgtaaatat tgacatttta aaataaaaact 300
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<210> 280
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (374)..(374)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (417)..(417)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (425)..(425)
 <223> n is a, c, g, t or u

<400> 280
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gatttgaaag aggcaacctt tttcctcgcg tttctaaagg cctatgaaaa gggcacgtcg 240
ggaagtgcac ataagacgtt gaacatcggt gcatgagatg ttgaagaagt acaagatttc 300
gttcttctct ccattaaagt acaatctccc tggggagaga cacacaaagt acacatttag 360
agaccagtta tttntttttc cagattcggt tcccggtgcc tttttcctag gttaagnagc 420
ttttncctgg 430

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<210> 281
<211> 972
<212> DNA
<213> Homo sapiens

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<400> 281
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ggagagaagc cgtaagaaca gagggaaaat ggggccagag tcggggcgca gggacgagag 180
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cgtctcgagc tc 972

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<210> 282
<211> 3624
<212> DNA
<213> Homo sapiens

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<211> 364
<212> DNA
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364

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<211> 2038

<212> DNA

<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<211> 521
<212> DNA
<213> Homo sapiens

<400> 328
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<211> 390
<212> DNA
<213> Homo sapiens

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<210> 330
<211> 455
<212> DNA
<213> Homo sapiens

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<210> 331
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<211> 1529
<212> DNA
<213> Homo sapiens

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<210> 333

<211> 822

<212> DNA

<213> Homo sapiens

<400> 333

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822

<210> 334

<211> 2918

<212> DNA

<213> Homo sapiens

<400> 334

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 <211> 1755
 <212> DNA
 <213> Homo sapiens

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ccccgcgtcc ggggcggggc gcccgacccc agcccggggg ccaccgcgac ccccggcgcc 1560
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gaggacgagg acgaggacgt ggccagcccc gacggcttgg gccggttgaa tgtagcgggc 1680
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gccggactcg cctaa 1755

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<210> 336
<211> 1287
<212> DNA
<213> Homo sapiens

<400> 336
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gtccccggagg tcaccgggga tgcaccgtct gcatttcggc ccctgcggga caatggaggc 240
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gaaatcagat ataaccagac atcccagacc tcctggacga gtcctgcac caaccgaaat 360
gccatctcca gtcctacag ctccacggga ggcttgccgg ggctaaagcg gaggaggggg 420
ccagcctcat cccactgcca gctgaccctc agttcctcaa agacagtga tgaggacagg 480
cctcaggctg tctcttcagg tcacacccag tgtgaaaagg cagcagatat agcaccaggg 540
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<210> 337

<211> 539

<212> DNA

<213> Homo sapiens

<400> 337

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ttttgagatg gagtctcgct cttgtcgccc aggctggagt gcagtggcac gatctcagct 180
ccctgcaacc tccgcctccc gggttcatgt gattctcctg cctcagcctc cccagtagct 240
gggaatacag gcacccgcca ccatgcccgg ctaatttttg tagttttagt agagacgggg 300
tttcatcatg ttggacaggc tggctctgaa ctctgacct caggtgatcc atcagcctgg 360

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gcctcccaaa gtactgggat tacaggcatg agccaccaca cctggcccca ttttttattt 420
 attacaaaat caaagacatg ggtgatgcct ggacacatgtt gtctggagtc tggcacactg 480
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<210> 338
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 338
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 ttgttgagcc cctggactat gagaatgtta ttgcccaaag aaaaaccag atttacagcg 180
 accccctccg agatctgctt atgttcccaa tggaagatat atctatctcg gtgataggct 240
 gtcaacgcag aacgggtgcag totactgtac cagaagatgc tgaaaagagg gccagagtt 300
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<210> 339
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 339
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 tgtagacacg tgcttctcga aacaccgcat cccccgggtc ccgccccgcc cggcgcgcg 180
 actcgaaccc gccagagag cgttgctggtg cgctgggtgc gagcagggtc tagccacccc 240
 caccctcacc tcacctcagg ccaccttgc tttttcaggt tcatcaaggt ttgcgcagt 300
 gatccgcgaa tgaagccagc ctggaagatc cccagtctcg agacagagcc tgacaggggc 360
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<210> 340
 <211> 552
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (366)..(366)
 <223> n is a, c, g, t or u

<400> 340

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cattttctaa aaaaacccaa aaattccctt acatcggcct aaacatttat taaagggggg    180
ggaaaaaacc tttttcaatt ttttaagcggg ccaaaaaaaaa accctttccc caacttttaa    240
aatTTTTTaa aaaaaaaagc caatttatat gggacatttg ggggcccggg gcataaaaaa    300
acaggcattt tccccaacgg gccaaaaacc aacaaacaag gggccttttt ttgggggggaa    360
attaantttc aaaggcaaag gggttcaaag gggacccaag gggctgcccc ccccgaggag    420
aaaaccctac aaaaataatg aagtttgag ggggccaccg ccgggtccca aaaaggggtc    480
tttcttcctt atttttttaa aaaacaaggg ggccctaggg ggggggagaa aaaaaacca    540
ctttaatata ga                                                              552

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<210> 341

<211> 474

<212> DNA

<213> Homo sapiens

<400> 341

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ccactaatac acactttgaa aagtaccatc accatatata tatttgcttt aaaaaattat    180
gacaagcttc aggtaaaaat aattttttaa ggggccattt ttcatttacg tacaatcagt    240
acatcttatt tacatatatg actggatctt tattctattt tcttcatata agatatttta    300
actggtaggt aactgctcta ttctgttttt atagaaagac taaacacctt atttacaggc    360
agttttgatg atgctagttt gtctccaaat tacgtactga atatagttaa aatcttaatg    420
aataacataa aaattaagat ccggtattaa cagactattt tatgggtcac actg          474

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<210> 342

<211> 2379

<212> DNA

<213> Homo sapiens

<400> 342

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cggcgggggca gccccgccca cctgccctcc tgcagcccag cgctgctact gctgggtgctg    180
ggcggctgcc tgggggtctt cggggtggct gcgggaaccc ggaggcccaa cgtgggtgctg    240
ctcctcacgg acgaccagga cgaagtgctc ggcggcataa caccactaaa gaaaacccaa    300

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gctctcatcg gagagatggg gatgactttt tccagtgcct atgtgccaaag tgctctctgc	360
tgccccagca gagccagtat cctgacagga aagtaccac ataatcatca cgttgtgaac	420
aacactctgg aggggaactg cagtagtaag tcctggcaga agatccaaga accaaatact	480
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aatgagtacg gagccccaga tgcagggtga ctagaacacg ttctctctggg ttggagttac	600
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gcacggaagc atggtgaaaa ctatagtgtg gactacctga cagatgtttt ggctaattgc	720
tccttggact ttctggacta caagtccaac tttagacct tcttcatgat gatcgccact	780
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ggacagtttt ccttgccaat agacaagaga cagctgtatg agtttgatat caaagttcca	1140
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caggaggtgt ttgtagaagt ctaataatctg actgcagacc cagaccagat cactaacatt	1560
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gattattcct cttgtgggtta aagactgaat ttgtaaacc attcagataa atggcagtac	2100
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aaggacctgt gtagcatttc agattgagca cttcactatc aaaaatacta acatcacatg 2220
gcttgaagag taaccatcag agctgaatca tccaagtaag aacaagtacc attgttgatt 2280
gataagtaga gatacatttt ttatgatggt catcacagtg tggtaagggt gcaaattcaa 2340
aacatgtcac ccaagctctg ttcatgtttt tgtgaattc 2379

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<210> 343
<211> 558
<212> DNA
<213> Homo sapiens

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<400> 343
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aggtacattc ttgccgcgca tccctgctgt gctttcccca cgtgaggag gaggggagac 180
tgaatcggtt gtttagcagct gagggctggc cgggccgcgg agcctctgag ttggggcctg 240
ggttgaggag gatgtactat tgtcacacat tcatcaacta ttatctgctc ttttttccaa 300
tctttttgca atttcttcct cttatctcat cttacctcct ctttcgctag taatgaacta 360
actccccaac gttgttctac attcgcgcg actcttttta taactctcta tacatgttac 420
tgcattctta tacattctta acatactagc tgcggatgta atagctactt ctgttcgttt 480
gattaacatc ctatttcaac ttattagatt gctatgttcc cttcatattt tactagattt 540
cgggtcgtat tattttga 558

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<210> 344
<211> 569
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<222> (122)..(122)
<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<222> (131)..(131)

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<223> n is a, c, g, t or u

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<222> (133)..(133)

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<222> (136)..(138)

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<222> (146)..(148)

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<222> (156)..(156)

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<222> (175)..(175)

<223> n is a, c, g, t or u

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<221> misc_feature

<222> (177)..(177)

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<222> (179)..(179)

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<220>

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<222> (190)..(190)

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<222> (205)..(206)
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<222> (214)..(214)
<223> n is a, c, g, t or u

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<222> (230)..(231)
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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

<220>
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<222> (291)..(291)
<223> n is a, c, g, t or u

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<222> (296)..(296)
<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

<220>

<221> misc_feature
 <222> (344)..(344)
 <223> n is a, c, g, t or u

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 cntttcncgg ncngcnnnngc ggcccnngg tgggtngtct gngnngctct cnnenent 180
 ggggttgssn gggncnttt cnnenntggs ngentcncg gncttcngn nttttgggcc 240
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 cgtgsgntgt gggcgctgt ggcgnntccn ntncnggggc gntngccggc gcttatttgg 360
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 gattttactt ccgttgtwac gttgactgg 569

<210> 345
 <211> 1536
 <212> DNA
 <213> Homo sapiens

<400> 345
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 aacgaaccca tcctctatgg tcggagctac acttggtgt gctatgaagt gaaaataaag 180
 aggggccgct caaatctcct ttgggacaca ggggtctttc gaggccaggt gtatttcaag 240
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 tacaagtgtt tccagatcac ctggtttgta tcctggaccc cctgcccgga ctgtgtggcg 360
 aagctggccg aattcctgtc tgagcacccc aatgtcacc tgaccatctc tgccgccgcg 420
 ctctactact actgggaaag agattaccga agggcgctct gcaggctgag tcaggcagga 480
 gcccgcgatga cgatcatgga ctatgaagaa tttgcatact gctgggaaaa ctttgtgtac 540
 aatgaaggtc agcaattcat gccttggtac aaattcgatg aaaattatgc attcctgcac 600
 cgcacgctaa aggagattct cagatacctg atggatccag acacattcac tttcaacttt 660
 aataatgacc ctttggtcct tcgacggcgc cagacctact tgtgctatga ggtggagcgc 720
 ctggacaatg gcacctgggt cctgatggac cagcacatgg gctttctatg caacgaggct 780
 aagaatcttc tctgtggctt ttacggccgc catgcggagc tgcgcttctt ggacctgggt 840
 ccttctttgc agttggaccc ggcccagatc tacagggtca cttggttcat ctctggagc 900

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ccctgcttct cctggggctg tgccggggaa gtgcgtgcgt tccttcagga gaacacacac   960
gtgagactgc gcattcttcgc tgccgcgcatc tatgattacg acccctata taaggaggcg   1020
ctgcaaattgc tgcggggatgc tggggcccaa gtctccatca tgacctacga tgagtttgag   1080
tactgctggg acacctttgt gtaccgccag ggatgtccct tccagccctg ggatggacta   1140
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tgaaggatgg gcctcagctc ctaaggaagg cagagacctg ggttgagcag cagaataaaa   1260
gatcttcttc caagaaatgc aaacagaccg ttcaccacca tctccagctg ctacagaca   1320
ccagcaaagc aatgtgctcc tgatcaagta gattttttaa aaatcagagt caattaattt   1380
taattgaaaa tttctcttat gttccaagtg tacaagagta agattatgct caatattccc   1440
agaatagttt tcaatgtatt aatgaagtga ttaattggct ccatatttag actaataaaa   1500
cattaagaat ctcccataat tgtttccaca aacct                               1536

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<210> 346
 <211> 476
 <212> DNA
 <213> Homo sapiens

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<400> 346
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ccttctctca atctgacttt tgtctcttgg cttccccag cctccctct atcctcactg   180
gcctttccag cctccacctt ggtctctgga cttccctctg cctcttccct gatgtctagc   240
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ccctgtccca gagcctgcct tccacatcct gctgcctctc cctccagact ccctgaaccc   360
ttccagattg ggggttttagg tccagaagg ggacttaggt catcataggc actcaggaaa   420
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<210> 347
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 <213> Homo sapiens

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<212> DNA

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<210> 352

<211> 738

<212> DNA

<213> Homo sapiens

<400> 352

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 <213> Homo sapiens

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 <211> 2282
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<212> DNA
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<213> Homo sapiens

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<223> n is a, c, g, t or u

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<223> n is a, c, g, t or u

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 <212> DNA
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<210> 366
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<212> DNA
<213> Homo sapiens

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<210> 367
<211> 290
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<210> 368

<211> 2161

<212> DNA

<213> Homo sapiens

<400> 368

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<210> 369

<211> 914

<212> DNA

<213> Homo sapiens

<400> 369

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<210> 370

<211> 5590

<212> DNA

<213> Homo sapiens

<400> 370

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<211> 1079

<212> DNA

<213> Homo sapiens

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<211> 346

<212> DNA

<213> Homo sapiens

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<211> 967

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 381

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<212> DNA

<213> Homo sapiens

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<211> 4866

<212> DNA

<213> Homo sapiens

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aagcccaaga gagcccaaaa acagaagaaa gtagtagagg ctgtaaactc tgactcggat 4560
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aaaacaacaa gcaagaaacc gaagaagaca tcttttgatc aggattcaga tgtggacatc 4740
ttccctcag acttccctac tgagccacct tctctgccac gaaccggtcg ggctaggaaa 4800
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aattaa 4866

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<210> 387
<211> 319
<212> DNA
<213> Homo sapiens

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<400> 387
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actgggctec tccacccggg accttttgac ctcggtctct ccagtggaag aggcggaggc 180
agaggcgggtg gtggcagtggt ctgggggtgtg gtggccgtgg ccgcgacggc tgctgctggc 240
tccttggggc ccacctcgca caccgggtg accaccaccg gcgcggatga actcgcttgg 300
gtcgcaagga gctgcaaag 319

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<210> 388
<211> 408
<212> DNA
<213> Homo sapiens

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<400> 388
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ccatgggaag 60
aaactttttt ttaaaaaaaa aaaaacgggg gggaaaacc ctttgactta ccttccagta 120
gtcattcccc ccttttacgg gccaatcaa aaccttgttt tccgggggaa tgggacggaa 180
aattacattt ggacaacttt ttttcctttt atccccaaact ttggccaaaa agcaaaaaaa 240
ggcctttttt ttataaaaaa agaataaatt cccccagggg tttttaaaaa aatttcccc 300
ccccggccct ttaaaaggga aaaaaacaag gactttttta aaccggaaaa ccccttttt 360
ggggtttttt ttaaaaactt aaaaacggg ggttttttcc cccttaaa 408

```

```

<210> 389
<211> 462
<212> DNA
<213> Homo sapiens

```

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<400> 389

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```

ttacaataaa ccagtaatag ttttattcac ttaaagatga aaacaatctg cttttgtaca      60
gcaaggggtca tgaaaaataa agttaatgga caactagagt aaaaatattt ttaacatatg     120
acaaggagct aataccccaa tatatacaga gtcagaagt tattatgaaa gacattaaca      180
tatagcaaaa caagcaatgg ccatgtggtt tcacagaaaa ttctggaatt tcatatcaag     240
ggtgatagga ggctcttttg ttttagtgag acaatttttt tttttttttt tgagacacag     300
tctcgctctg tcaccagggc tggagtgaag tgggtgcgatc tcggctcact gcaagctccg     360
cctcccaggt tcacgccatt ctctgcctc agcctcccga gtagctggga ctacaggtgc      420
ccgccaccaa gcctggctaa ttttttgtat ttttagtaga ga                          462

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<210> 390
<211> 598
<212> DNA
<213> Homo sapiens

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<400> 390
tttttttttt tttttttaga gagataaaca atgtagctaa tttttagga aaggccaaag      60
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ctgtaaaggt tcagaaagca tatcctgaac acaagccctc ctgagttacg ttatttaaag     180
tgttaaatac tcaagccaac cgaaacacaa accaaagtaa agaatttaga taagaaagac     240
atgtgaaaag gaggctactg gtaagtacag aactcagtta aatgtaaata attatgaatt     300
aattgtatta tctttttatt taaaaatcta ataaattctg atttttctct ccccaacttc     360
ctgtgatata actaagaaaa aacaaagaga aactagtttc tgtaaaactg gaaactccga     420
gaattcctca gtgatatgcc aggaaacagg aagaatttcc actagccaaa gttctgagga     480
agttacaggc aggaaaaaag ataagggtta ccatcttttt ttagtcaata aagctatgcc     540
cactctaggt actttcctta gaaacatgga gtcttcccag cagagaaagg aaagctag      598

```

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<210> 391
<211> 383
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (341)..(341)
<223> n is a, c, g, t or u

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<220>
<221> misc_feature
<222> (346)..(346)
<223> n is a, c, g, t or u

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<220>

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<221> misc_feature
 <222> (365)..(365)
 <223> n is a, c, g, t or u

<400> 391
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 atattgaaaa cagcctgtaa gttttcatcc aatattttaa accacctcct ggaactaaaa 180
 ttggtcttca aaaatcatgg gcgtattaac attttccaaa catgccctgc tggactagga 240
 aggtcctgtt attctttctt ttgaacttcc cagtaagttt ccttgttccc tattcctagg 300
 gtttaaagtg gcaaaggagac tttttatgag gctattaggg ncaagntttc ttccattgga 360
 aaatnaaact tttggcggga aat 383

<210> 392
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (521)..(521)
 <223> n is a, c, g, t or u

<400> 392
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 agggcacaca gttccaacac cagaacagag aatttgggaa gataattgct ctgaaacaga 180
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 ccctatggga aaccatttca ctgcctaaag ggcagaaggc atcataaatc acccattgat 300
 acattggtgg ggggctcctg tccccctggt gaccactcca aggtgatttg atctgtgctt 360
 cctctgttgg gtcagagacg aaacgggcta ttattaggtc aaacattaca gaaatcaact 420
 gagactctta actagtagtt gatacaccac agggctttac tttactgcac aattactaac 480
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 aaagcatgac agggtttgaa cagtgatctt gaa 573

<210> 393
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 393
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agcctcttgt tctgctatca aaggaccaat aagaagcaaa ctgatattac agggcaaagt 120
 ttcccagaca gcccgacctg ctccccttag gaatgagtgt ccctggaggg ggagagcctg 180
 gaaccaaagc cccgccagga actgcttccc ctaaactgag gttctctgaa aaaaatgttc 240
 gcctggctga taaagccgcc tottaacaga gccagacac ttctgtgctt cccctgggtt 300
 gctaattgag gacactaaag ccctaagaga taccacaggt cgggggaagg ggccccaaga 360
 cctagacctc cgggtggcgac catgcccttg agaggatggg agctgaattg gagcacgaga 420
 ttatttatca tcgctggatg aagctccagc tagagctcag tatttcctct ttttctgggc 480
 tcagacagac acagact 497

<210> 394
 <211> 505
 <212> DNA
 <213> Homo sapiens

<400> 394
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 aaagaatgag taaaatactg ctttgtccca aaggacaagc agaaaatgtt aaggcacaac 120
 ggatgctcag aaaacgtaag aagctgaagg gaaaacacat catctgtgta ctcagacaca 180
 cacactccaa cccatcacac gaacacaccc tcgcccgcgc atcagagaag aattcgcttg 240
 gaatcagctg ggggcgggtg ctcacgccta taatcccagc actttgggag gttgaggcgg 300
 gcagatcatg aggtcaggag ttcacgacca gcctgaccaa catggtgaaa ccctatctct 360
 actaaaaata caaaaatcag cggggcctgg tggcatgcac ctgtaatccc agctactcag 420
 gaggttgagg caggagaatc gcttgagaca gaggttgagc tgagccgaga tgcgccactg 480
 cactcctgcc tgggcaacag agcaa 505

<210> 395
 <211> 2283
 <212> DNA
 <213> Homo sapiens

<400> 395
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 aaa 2283

<210> 396

<211> 1634

<212> DNA

<213> Homo sapiens

<400> 396

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 gctttttgtt agaggctctt atggaaagag tggtagatgg tgggatgagc atctttctga 240
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atgggggacta tagtgcaacc tattttgggta aagaaacccat ttgctaaaat ggagaaagta 1560
aatagattttt tattttaaatt acagaaacat gttaaaggcc ggacaaagga aagacaataa 1620
aatcataaat tatc 1634

<210> 397

<211> 1943

<212> DNA

<213> Homo sapiens

<400> 397

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ggctttgggt ctgtaacagg aaaaattgaa tgtgaaatta aaatcaatca cgaaggagaa 660
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ccttgggtca tttgctcagt gtctgaggat aacatcatgc agatatggca aatggctgaa 1500
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agggtattgc ctttgattca actgttttaa gtcctcattt tctcaaacta agtgcttgct 1860
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ttgcagaaat aaagttttta aat 1943

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<210> 398
<211> 594
<212> DNA
<213> Homo sapiens

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<400> 398
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aaggagaagc tcccgcggta ctacaagaac atcgggtctgg gcttcaagac acccaaggag 180
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gagtgcgggc ctctgagcaa gacagtgcgc ttcaacgtgc tcaaggtcac caaggctgcc 480
ggcaccaaga agcagttcca gaagtcttga ggctggacat cggcccgtc cccacaatga 540
aataaagtta ttttctcatt ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 594

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<210> 399
<211> 2141
<212> DNA
<213> Homo sapiens

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<400> 399
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agccccacgg gcgccacgga acccgctcga tctcgccgcc aactggtaga catggagacc 120
cctgcctggc cccgggtccc gcgccccgag accgcccgtc ctcggacgct cctgctcggc 180
tgggtcttcg cccaggtggc cggcgcttca ggcaactaaa atactgtggc agcatataat 240
ttaacttggg aatcaactaa tttcaagaca attttggagt gggaacccaa acccgtaat 300

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<213> Homo sapiens

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<210> 407

<211> 1519

<212> DNA

<213> Homo sapiens

<400> 407

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<211> 6628

<212> DNA

<213> Homo sapiens

<400> 410

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<211> 2621

<212> DNA

<213> Homo sapiens

<400> 425

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gcaatcagga aatgccatgt gacattcttg ataaagacga aacacacaca catttcacag      540
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632

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<211> 816
<212> DNA
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<211> 1273
<212> DNA
<213> Homo sapiens

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<400> 445

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<211> 1404

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <211> 1932
 <212> DNA
 <213> Homo sapiens

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 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 454
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<210> 455
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 455
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 gaaccaccc ggggggggtg gccaccccc cacagttcac ctaaaaccct cccaagcggg 240

gcaggcgaca aaggcgggga attaaccaaa aaacaaaaac cccccagga aattttttta 300
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 <213> Homo sapiens

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 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 457
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<210> 458
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 458
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<210> 459
 <211> 4731
 <212> DNA
 <213> Homo sapiens

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<211> 174
<212> DNA
<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 caacttgtct ctataataga attctgttta tagaataagg gagaaaataa tccagtcttc 840
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 <213> Homo sapiens

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atgatcggct cttataatta attaattgt 928

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 <211> 977
 <212> DNA
 <213> Homo sapiens

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agaaataagg gaggtctaga gcttctattc cttggccatt gtcaacggag agctggccaa 180
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 cttgatctca agggcgtaac tctggaagca cagcttgact acacgtcatt tttaccaatg 300
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 catttaatta ttttgcaaag caacctaaga gctaaagatg taatttttct tgcaattgta 420
 aatcttttgt gtctcctgaa gacttccctt aaaattagct ctgagtgaaa aatcaaaaga 480
 gacaaaagac atcttcgaat ccatatttca agcctggtag aattggcttt tctagcagaa 540
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 gaaaagcaaa atgtacttaa gaataagaat acatgggtcca ttcaacttta tgttatagat 720
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 <211> 710
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 <213> Homo sapiens

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 <211> 630
 <212> DNA
 <213> Homo sapiens

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 <223> n is a, c, g, t or u

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<210> 467
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 467
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 acacatgcag ttaatttcta cagtagtgac cagaggaggg gcctggagtg cccagctgg 420
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<210> 468
 <211> 1748
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g, t or u

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<210> 469

<211> 2317

<212> DNA

<213> Homo sapiens

<400> 469

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 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
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 caaagcgatg agtctccagc aaaagccggg ggaacttttt cgcggcgctc gggatcctga 180
 gcgtcctggg ctccgggcgt gtatgagagc gagcgagacg cgctcagaga gaggactgt 240
 g 241

<210> 471
 <211> 389

<212> DNA
<213> Homo sapiens

<400> 471
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aaaaaaaaag acaataagtt ttcttctatg tgacttacag caacatagca agtatgttac 240
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<210> 472
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (487)..(487)
<223> n is a, c, g, t or u

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caaatgaccg ccccgggcgg cccgaggcac gctctctccc cctccgcggg attagtaact 420
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gcccgngcc g 491

<210> 473
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (499)..(499)
<223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (554)..(554)
 <223> n is a, c, g, t or u

<400> 473
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 aatttagaaa tagcaataaa aagagtatca gtgactcata gaagetaacc ttccatttaa 300
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<210> 481
<211> 2121
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1524)..(1524)
<223> n is a, c, g, t or u

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<400> 481
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<210> 482
 <211> 1880
 <212> DNA
 <213> Homo sapiens

<400> 482
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<210> 483
 <211> 1636
 <212> DNA
 <213> Homo sapiens

<400> 483
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<210> 484
<211> 641
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (535)..(535)
<223> n is a, c, g, t or u

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acttctccca gaatcgtaag ggggctgacg gaggatgaga gggggcaccg agagatcgga 600
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<210> 485
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 485
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 aaaaaaagga aaaccttggc ctgggacccc taaggaaaaa tgggcggatg gggggggccc 300
 ccctccccgg ggcccat 317

<210> 486
 <211> 2811
 <212> DNA
 <213> Homo sapiens

<400> 486
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 ctgctgtgtt tgattggttc ttcgaagcgg cctgccctgc ctccctgcag gaggatcccc 180
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<210> 487

<211> 796

<212> DNA

<213> Homo sapiens

<400> 487

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<210> 488

<211> 1670

<212> DNA

<213> Homo sapiens

<400> 488

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<210> 489
<211> 1143
<212> DNA
<213> Homo sapiens

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<220>
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<222> (655)..(655)
<223> n is a, c, g, t or u

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<220>
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<222> (688)..(688)
<223> n is a, c, g, t or u

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 ggggttgagg aattaaacag aatggaggtt cggtgggggtg ataaaggatc tactgaggaa 180
 ggtgcaaggc tagagaaagc caaaaatgct gtggtgaaga ttcctgaaga aacagaggaa 240
 cccatcaagc ctagaccacc tcgaccaga cccacacacc agtctcctca gacaaaatgg 300
 tacaccccaa ttaaaggctg tcttgatgct ctctgggctt tggtgacgag gcagtatgac 360
 cgggtttctt tgatgagacc tcaggaagga gatgagggcc ggtgcataaa cttatcccga 420
 gttccatctc agttgatggt catccaaatg aacgacatca agtgcatttc agaagctttt 480
 ggagagcagc ttaattgctc tcaactcgga aatgttttct ctgccttatg ctatgcttgc 540
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 <212> DNA

<213> Homo sapiens

<400> 498

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tgcgggtggc gctgctgctc ctgctcctgg tggccgccag ccggcgcgca gcaggagcgc      180
ccctggccac tgaactgcgc tgccagtgtc tgcagaccct gcagggaatt cacctcaaga      240
acatccaaag tgtgaagggtg aagtcccccg gacccactg cgcccaaacc gaagtcatag      300
ccacactcaa gaatggggcag aaagcttgct tcaaccccgc atcgcccatg gttaagaaaa      360
tcatcgaaaa gatgctgaaa aatggcaaat ccaactgacc agaaggaagg aggaagctta      420
ttggtggctg ttctgaagg aggcctgccc ttacaggaac agaagaggaa agagagacac      480
agctgcagag gccacctggc ttgcgcctaa tgtgtttgag catacttagg agaagtcttc      540
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actgtgatag aggctgagga atccaagaaa atggccagta agatcaatgt gacggcaggg      840
aaatgtatgt gtgtctatct tgtaactgta aagatgaatg tcagttgtta tttattgaaa      900
tgatttcaca gtgtgtgggc aacatttctc atgttgaagc tttaagaact aaaatgttct      960
aaatatccct tggcatttta tgtctttctt gtaagatact gccttgttta atgttaatta     1020
tgcagtgttt ccctctgtgt tagagcagag aggtttcgat atttattgat gttttcacia     1080
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<212> DNA

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<400> 499

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ccagaaggaa gaattaaaaa tgaatatgtt caaggaagca gtgaccttca aggacgtggc      180
tgtggccttc acggaggagg aattggggct gctgggccct gccagagga agctgtaccg      240
agatgtgatg gtggagaact ttaggaacct gctgtcagtg gggcatccac cttcaaaca      300
agatgtatca cctatagaaa gaaatgagca gctttggata atgacgacag caaccgaag      360
acagggaat ttagatacct tacctgtaaa agctcttttg ctctatgacc tggctcaaac      420

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ttaaacttgg atttgaagtt agaagaaatg ttggaagtca tttatatatg aagaaatggt 480
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ttctgggctg tggttgtaaa ctgtgagcac tacaaaaatgt ttttccttat tgataccata 600
ttatggtagg aaagacatgg aataaaaaat ttagatagta tgtcagtagt tgtgttttta 660
aatgggtttc attagtgett agcaattggg agcttggtgg accatctctt ggttttggac 720
catctcttgg tttctgtcag tatgtaaacc agaaacttca aatgtgtcac aaaagatgag 780
cagaactatc ccgaggttca ttaaa 805

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caggcctgct gtgcactcct gtggcatcgg ggggcggggg gcaagcatca cagtcatagg 180
gagtgtgagg cgcccagaat gggggctcca cagtcaggcc tgcaccccg ctgcaggata 240
ccagatcctg tggttcactg tgagacctcc gcctctctcg tctgccttac gctgccccct 300
cgcaccccca aggtatgacg gcatttgaac aatgcacgtg cccatctaga gccttgggggt 360
gggcctgtga gagagtgg 378

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<210> 501
<211> 601
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

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<220>
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tgccctcgag ggccagtctg tggcatgaca agaaatgcag ggggtgcacgt gttggggctg 180
ccctttggca ctcaactggg tgggtcaggg gagagcaaac accaagggtt tctggagacc 240

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ggaaccagcc agtgcagcca tttggcttct ccttcaggac cagctgtcag tccccaggcc 300
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 agatggccag ctgctcaatc aggatgatga gcaggctacc acccaccact agccccaagt 420
 agatctggca atggatgttc tcccagcact tcttctgggc cagggctctt gttgtcttgc 480
 tgaaggctga gctcatatnc cagagttggt ctgaacgctg ctccagttcg gtcagctttn 540
 catcatgctc caggaccttg tcaaagttgt taagcgtgat ttccgtcacc tttgtcgtt 600
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<210> 502
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 <212> DNA
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<400> 502
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 tgcagaatgt gattaatact gtgaagggaagg ggcactgga agtggctgag tacctgaccc 180
 cggctcctcaa ggaatcaaag tttaaggaaa caggtgtaat taccacagaa gagtttgtgg 240
 cagctggaga tcacctagtc caccactgtc caacatggca atgggctaca ggggaagaat 300
 tgaaagtga ggcataccta ccaacaggca aacaattttt ggtaaccaa aatgtgccgt 360
 gctataagcg gtgcaaacag atggaatatt cagatgaatt ggaagctatc attgaagaag 420
 atgatgggtga tggcggatgg gtagatacat atcacaacac aggtattaca ggaataacgg 480
 aagccgttaa agagatcaca ctggaaaata aggacaatat aaggcttcaa gattgctcag 540
 cactatgtga agaggaagaa gatgaagatg aaggagaagc tgcagatatg gaagaatatg 600
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aaatatgttc cactaccagc cttacttggt taataaaaaat cagtgc aaag aaaaaaaaaa 1260
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 <213> Homo sapiens

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